ABSTRACT OF THE DISCLOSURE

FLEX STRIPS FOR HIGH FREQUENCY CONNECTORS

A high frequency connector utilizes flex strip signal/reference conductor pairs extending in channels formed in a dielectric connector body between terminations at connector ends. The flex strips are formed as signal and reference conductor traces separated by a flexible dielectric wherein the impedance can be influenced by the width of the signal and reference traces and the thickness and selected material of the dielectric separating the adjoining conductor traces. Design of the flex strip assemblies is used to vary the capacitance which enables the connector impedance to match the impedance of the circuits and/or cables connected to the connector and mitigate any discontinuities among the sequence of circuit paths. The close proximity of signal and reference traces within the pair and the separation of signal lines in the connector body reduces cross talk by minimizing mutual inductance between signal lines.